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STN	**Oceľ a železo Stanovenie obsahu titánu Spektrofotometrická metóda s diantipyrylmetánom (ISO 10280: 2025)**	**STN EN ISO 10280** 42 0522

Steel and iron - Determination of titanium content - Diantipyrylmethane spectrophotometric method (ISO 10280:2025)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 12/25

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 10280

September 2025

ICS 77.080.01 Supersedes EN ISO 10280:1995

English Version

Steel and iron - Determination of titanium content - Diantipyrylmethane spectrophotometric method (ISO 10280:2025)

Aciers et fontes - Détermination du titane - Méthode spectrophotométrique au diantipyrylméthane (ISO 10280:2025)

Stahl und Eisen - Bestimmung von Titan - Spektralphotometrisches Verfahren mit Diantipyrylmethan (ISO 10280:2025)

This European Standard was approved by CEN on 21 September 2025.

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Contents

Page

European foreword

This document (EN ISO 10280:2025) has been prepared by Technical Committee ISO/TC 17 "Steel" in collaboration with Technical Committee CEN/TC 459/SC 2 “Methods of chemical analysis for iron and steel” the secretariat of which is held by SIS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2026, and conflicting national standards shall be withdrawn at the latest by March 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 10280:2025 has been approved by CEN as EN ISO 10280:2025 without any modification.

International Standard

ISO 10280

Steel and iron — Determination of titanium content — Diantipyrylmethane spectrophotometric method

Aciers et fontes — Détermination du titane — Méthode spectrophotométrique au diantipyrylméthane

Second edition
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Contents

Page

Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 1, *Methods of determination of chemical composition,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 459/SC 2, *Methods of chemical analysis for iron and steel,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 10280:1991), which has been technically revised.

The main changes are as follows:

— Clause 2, Normative references, has updated;

— the mandatory Clause 3, Terms and definitions has been added and subsequent clauses have been renumbered;

— precision data has been re-evaluated.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

International Standard **ISO 10280:2025(en)**

Steel and iron — Determination of titanium content — Diantipyrylmethane spectrophotometric method

1 Scope

This document specifies a diantipyrylmethane spectrophotometric method for the determination of titanium in steel and iron.

The method is applicable to titanium contents between 0,002 % (mass fraction) and 0,80 % (mass fraction).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 648, *Laboratory glassware — Single-volume pipettes*

ISO 1042, *Laboratory glassware — One-mark volumetric flasks*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition*